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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER

STEVENS, ROBERTA A

ART UNIT PAPER NUMBER

2665

DATE MAILED: 01/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/664,500

Applicant(s)

BATES ET AL.

Examiner

Roberta A Stevens

Art Unit

2665

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 25 August 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2,4-10,12,13 and 15-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,4-6,8, 10,11, 13 and 15-17 is/are rejected.
- 7) ☒ Claim(s) 7,12 and 17 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

Claim Rejections - 35 USC § 112

1. Claims 15-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 15-17 are dependent on cancelled claim 14. The Examiner examined claim 15 as being dependent on claim 13.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1, 2, 4-6, 8, 10, 11, 13, 15-17 are rejected under 35 U.S.C. 102(e) as being anticipated by Blumenau (U.S. 2003/0115324 A1).

3. Regarding claim 1, Blumenau teaches (fig. 3 and page 4, paragraphs 43-46) a storage area network; at least one server; a plurality of storage devices; and a storage allocator, connected between the server and the plurality of storage devices, storage allocator including a read/write storage request parser that receives from the server a read/write storage request and extracts therefrom a host ID parameter, a target LUN parameter and a target host bus adapter parameter; and a LUN mapper that receives from the read/write storage request parser the host

Art Unit: 2665

ID parameter, the target LUN parameter and the target host bus adapter parameter and maps based thereon to at least one physical LUN, wherein the physical LUN represents at least one storage location within the plurality of storage devices.

4. Regarding claim 2, Blumenau teaches (page 4 paragraph 43) the LUN mapper comprises at least one LUN map.

5. Regarding claim 4, Blumenau teaches (fig. 3 and page 4 paragraph 43-46) the LUN mapper uses the host ID parameter to select one of the LUN map corresponding to the host ID parameter.

6. Regarding claims 5, 11 and 16, Blumenau teaches (page 4, paragraphs 43-46) the LUN mapper applies the target LUN and the target HBA to the selected LUN map to locate the physical LUN in the LUN map.

7. Regarding claim 6, Blumenau teaches (page 4, paragraphs 43-46 and fig. 3) the LUN mapper issues the received request to at least one storage device corresponding to one physical LUN, wherein the storage device is located in the plurality of storage devices.

8. Regarding claim 8, Blumenau teaches (fig. 3 and page 4, paragraphs 43-46) a method for allocating storage area network, comprising, receiving a read/write storage request from a host computer; extracting a host ID parameter, a target LUN parameter and a target host bus adapter

Art Unit: 2665

parameter from the read/write storage request; determining a physical LUN based upon the host ID parameter, the target LUN parameter and the target host bus adapter parameter; and issuing a read/write storage request to a storage device in a storage area network, wherein the storage device correspond to the determined physical LUN.

9. Regarding claim 10, Blumenau teaches (page 4) storing at least one LUN map.

10. Regarding claim 13, Blumenau teaches (fig. 3 and page 4, paragraphs 43-46) a system for allocating storage area network, comprising, means for receiving a read/write storage request from a host computer; means for extracting a host ID parameter, a target LUN parameter and a target host bus adapter parameter from the read/write storage request; means for determining a physical LUN from the host ID parameter, the target LUN parameter and the target host bus adapter parameter; and means for issuing a read/write storage request to a storage device in a storage area network, wherein the storage device correspond to the determined physical LUN.

11. Regarding claim 15, Blumenau teaches (page 4 and fig. 3) means for storing at least one LUN map.

Allowable Subject Matter

12. Claims 7, 12 and 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

13. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

14. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

15. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roberta A Stevens whose telephone number is 571-272-3161. The examiner can normally be reached on M-F 9:00am-5:30pm.

Art Unit: 2665

16. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on 571-272-3155. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

17. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Roberta A Stevens
Examiner
Art Unit 2665

A handwritten signature in black ink, appearing to be 'S. NGUYEN', written over a horizontal line.

STEVEN NGUYEN
PRIMARY EXAMINER